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PTO/SB/05 (08-00)  
Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|--|--|--|
| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><br>(Only for new nonprovisional applications under 37 CFR 1.53(b)) |  | <b>Attorney Docket No.</b> 678-541(P9552)    |
|  |  | <b>First Inventor</b> Kyung-Joon CHUN et al. |
|  |  | <b>Title</b> HOME NETWORK SYSTEM IN...       |
|  |  | <b>Express Mail Label No.</b> EL713572329US  |

|  |   |
|--|---|
| <b>APPLICATION ELEMENTS</b><br><i>See MPEP chapter 600 concerning utility patent application contents.</i> | <b>ADDRESS TO:</b> Assistant Commissioner for Patents<br>Box Patent Application<br>Washington, DC 20231 |
|--|---|

|  |  |
|--|--|
| <p>1. <input checked="" type="checkbox"/> <b>Fee Transmittal Form (e.g., PTO/SB/17)</b><br/>(Submit an original and a duplicate for fee processing)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status.<br/>See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> <b>Specification</b> [Total Pages <b>28</b> ]<br/>(preferred arrangement set forth below)</p> <ul style="list-style-type: none"><li>- Descriptive title of the invention</li><li>- Cross Reference to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to sequence listing, a table, or a computer program listing appendix</li><li>- Background of the Invention</li><li>- Brief Summary of the Invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claim(s)</li><li>- Abstract of the Disclosure</li></ul> <p>4. <input checked="" type="checkbox"/> <b>Drawing(s)</b> (35 U.S.C. 113) [ Total Sheets <b>10</b> ]</p> <p>5. <b>Oath or Declaration</b> [ Total Pages <b>2</b> ]</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d))<br/>(for continuation/divisional with Box 17 completed)</p> <p>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>6. <input type="checkbox"/> <b>Application Data Sheet.</b> See 37 CFR 1.76</p> | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (<i>Appendix</i>)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. Specification Sequence Listing on:</p> <p>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p>ii. <input type="checkbox"/> paper</p> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p> |
|--|--|

|  |  |
|--|--|
| <b>ACCOMPANYING APPLICATION PARTS</b>  |  |
| 9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))                 |  |
| 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee)                    | <input type="checkbox"/> Power of Attorney       |
| 11. <input type="checkbox"/> English Translation Document (if applicable)                            |  |
| 12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449                         | <input type="checkbox"/> Copies of IDS Citations |
| 13. <input type="checkbox"/> Preliminary Amendment   |  |
| 14. <input type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)    |  |
| 15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) |  |
| 16. <input type="checkbox"/> Other: (Check for \$872 F.F.)   |  |
|  | (Check for \$40 Assign.)                         |


17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Prior application information: Examiner: \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

|  |   |                  |  |                 |                |
|--|---|------------------|--|-----------------|----------------|
| <b>18. CORRESPONDENCE ADDRESS</b>                          |   |                  |  |                 |                |
| <input type="checkbox"/> Customer Number or Bar Code Label |   |                  | <input checked="" type="checkbox"/> Correspondence address below |                 |                |
| (Insert Customer No. or Attach bar code label here)        |   |                  |  |                 |                |
| <b>Name</b>  | PAUL J. FARRELL                                     |                  |  |                 |                |
| <b>Address</b>   | Dilworth & Barrese, LLP<br>333 Earle Ovington Blvd. |                  |  |                 |                |
| <b>City</b>  | Uniondale   | <b>State</b>     | NY   | <b>Zip Code</b> | 11553          |
| <b>Country</b>   | U.S.  | <b>Telephone</b> | (516) 228-8484   | <b>Fax</b>      | (516) 228-8516 |

|                          |   |  |          |
|--------------------------|---|--|----------|
| <b>Name (Print/Type)</b> | PAUL J. FARRELL   | <b>Registration No. (Attorney/Agent)</b> | 33,494   |
| <b>Signature</b>         |  | <b>Date</b>                              | 10/27/00 |

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EL713572329US addressed to: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Dated: October 27, 2000

  
Michael J. Musella

10-30-00

A

PTO/SB/17 (09-00)

Approved for use through 10/31/2002. OMB 0651-0032  
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL  
for FY 2001**

Patent fees are subject to annual revision.

**TOTAL AMOUNT OF PAYMENT** (\$ 912.00)**Complete if Known**

|                      |                        |
|----------------------|------------------------|
| Application Number   |                        |
| Filing Date          |                        |
| First Named Inventor | Kyung-Joon CHUN et al. |
| Examiner Name        |                        |
| Group Art Unit       |                        |
| Attorney Docket No.  | 678-541(P9552)         |

U.S. PTO  
09/698832  
10/27/00

**METHOD OF PAYMENT**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

|                        |                         |
|------------------------|-------------------------|
| Deposit Account Number | 04-1121                 |
| Deposit Account Name   | Dilworth & Barrese, LLP |

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
- ☐ Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity |          | Small Entity |          | Fee Description        | Fee Paid |
|--------------|----------|--------------|----------|------------------------|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                        |          |
| 101          | 710      | 201          | 355      | Utility filing fee     | \$710.00 |
| 106          | 320      | 206          | 160      | Design filing fee      |          |
| 107          | 490      | 207          | 245      | Plant filing fee       |          |
| 108          | 710      | 208          | 355      | Reissue filing fee     |          |
| 114          | 150      | 214          | 75       | Provisional filing fee |          |

**SUBTOTAL (1)** (\$ 710.00)**2. EXTRA CLAIM FEES**

| Total Claims       |         | Extra Claims |   | Fee from below |   | Fee Paid |  |
|--------------------|---------|--------------|---|----------------|---|----------|--|
| 29                 | -20** = | 9            | x | 18             | = | \$162    |  |
| 2                  | -3** =  | 0            | x | 80             | = | \$0      |  |
| Multiple Dependent |         |              |   | 270            | = | \$0      |  |

| Large Entity |          | Small Entity |          | Fee Description  |
|--------------|----------|--------------|----------|--|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |
| 103          | 18       | 203          | 9        | Claims in excess of 20                                     |
| 102          | 80       | 202          | 40       | Independent claims in excess of 3                          |
| 104          | 270      | 204          | 135      | Multiple dependent claim, if not paid                      |
| 109          | 80       | 209          | 40       | ** Reissue independent claims over original patent         |
| 110          | 18       | 210          | 9        | ** Reissue claims in excess of 20 and over original patent |

**SUBTOTAL (2)** (\$ 162.00)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Large Entity |          | Small Entity |          | Fee Description  | Fee Paid |
|--------------|----------|--------------|----------|--|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |          |
| 105          | 130      | 205          | 65       | Surcharge - late filing fee or oath  |          |
| 127          | 50       | 227          | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 139          | 130      | 139          | 130      | Non-English specification  |          |
| 147          | 2,520    | 147          | 2,520    | For filing a request for <i>ex parte</i> reexamination                     |          |
| 112          | 920*     | 112          | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 113          | 1,840*   | 113          | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 115          | 110      | 215          | 55       | Extension for reply within first month                                     |          |
| 116          | 390      | 216          | 195      | Extension for reply within second month                                    |          |
| 117          | 890      | 217          | 445      | Extension for reply within third month                                     |          |
| 118          | 1,390    | 218          | 695      | Extension for reply within fourth month                                    |          |
| 128          | 1,890    | 228          | 945      | Extension for reply within fifth month                                     |          |
| 119          | 310      | 219          | 155      | Notice of Appeal   |          |
| 120          | 310      | 220          | 155      | Filing a brief in support of an appeal                                     |          |
| 121          | 270      | 221          | 135      | Request for oral hearing   |          |
| 138          | 1,510    | 138          | 1,510    | Petition to institute a public use proceeding                              |          |
| 140          | 110      | 240          | 55       | Petition to revive - unavoidable   |          |
| 141          | 1,240    | 241          | 620      | Petition to revive - unintentional   |          |
| 142          | 1,240    | 242          | 620      | Utility issue fee (or reissue)   |          |
| 143          | 440      | 243          | 220      | Design issue fee   |          |
| 144          | 600      | 244          | 300      | Plant issue fee  |          |
| 122          | 130      | 122          | 130      | Petitions to the Commissioner  |          |
| 123          | 50       | 123          | 50       | Petitions related to provisional applications                              |          |
| 126          | 240      | 126          | 240      | Submission of Information Disclosure Stmt                                  |          |
| 581          | 40       | 581          | 40       | Recording each patent assignment per property (times number of properties) | \$40     |
| 146          | 710      | 246          | 355      | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 149          | 710      | 249          | 355      | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 179          | 710      | 279          | 355      | Request for Continued Examination (RCE)                                    |          |
| 169          | 900      | 169          | 900      | Request for expedited examination of a design application                  |          |

Other fee (specify) (\$

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ 40.00)**SUBMITTED BY**

|                   |                        |                                   |          |           |                |
|-------------------|------------------------|-----------------------------------|----------|-----------|----------------|
| Name (Print/Type) | PAUL J. FARRELL        | Registration No. (Attorney/Agent) | 33,494   | Telephone | (516) 228-8484 |
| Signature         | <i>Paul J. Farrell</i> | Date                              | 10/27/00 |           |                |

**Complete (if applicable)****CERTIFICATION UNDER 37 C.F.R. § 1.10**

I hereby certify that this correspondence and the documents referred to as enclosed are being deposited with the United States Postal Service on date below in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EL713572329US addressed to: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231

Dated: October 27, 2000

Michael J. Musella

PATENT

Atty. Docket No. 678-541(P9552)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents  
Washington, D.C. 20231

UTILITY APPLICATION FEE TRANSMITTAL

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): Kyung-Joon, CHUN, et al.

For: HOME NETWORK SYSTEM IN ASYMMETRIC DIGITAL  
SUBSCRIBER LINE SYSTEM

Enclosed are:

- [X] 20 page(s) of specification  
[X] 1 page(s) of Abstract  
[X] 7 page(s) of claims  
[X] 10 sheets of drawings [X] formal [ ] informal  
[X] 2 page(s) of Declaration and Power of Attorney  
[X] An Assignment of the invention to \_\_\_\_\_

Samsung Electronics Co., Ltd.

CERTIFICATION UNDER 37 C.F.R. §1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date October 27, 2000 in an envelope as "Express Mail Post Office to Addressee" Mail Label Number EL713572329US addressed to: Assistant Commissioner of Patents and Trademarks, Box Patent Application, Washington, D.C. 20231.

Michael J. Musella  
(Type or print name of person mailing paper)

(Signature of person mailing paper)

[ ] This application claims the benefit under 35 U.S.C. §119(e) of U.S. Provisional Application(s) No(s)..  
APPLICATION NO(S) : FILING DATE

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

[ ] Certified copy of applications

Country

Appln. No.

Filed

Republic of Korea

46856/1999

October 27, 1999

from which priority under Title 35 United States Code, §119 is claimed

[ ] is enclosed.

[x] will follow.

CALCULATION OF UTILITY APPLICATION FEE

| For                             | Number<br>Filed | Number<br>Extra | Rate       | Basic Fee<br>\$710.00 |
|---------------------------------|-----------------|-----------------|------------|-----------------------|
| Total<br>Claims*                | 29              | -20 = 9         | x \$ 18.00 | \$162.00              |
| Independent<br>Claims           | 2               | -3 = 0          | x \$ 78.00 | \$ -0-                |
| Multiple<br>Dependent<br>Claims | [ ] yes         | Add'l. Fee      | \$260.00   | \$                    |
|                                 | [ ] no          | Add'l. Fee      | None       | = \$                  |
| TOTAL                           |                 |                 |            | \$872.00              |

[ ] Verified Statement of "Small Entity" Status Under 37 C.F.R. §1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith \$\_\_\_\_\_.

[X] The amount of \$40.00 for recording the attached Assignment is included in the enclosed check.

[X] A check in the amount of \$872.00 to cover the [ ] recording, [X] filing fee(s) is attached.

[ ] Charge fee to Deposit Account No. 04-1121. Order No. \_\_\_\_\_  
TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

\*Includes all independent and single dependent claims and all claims referred to in multiple claims.  
See 37 C.F.R. § 1.75(c).

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 04-1121. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 04-1121 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Date: October 27, 2000



SIGNATURE OF ATTORNEY

Paul J. Farrell

Registration No. 33,494

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